



1

00:00:01,310 --> 00:00:06,220

Good morning and welcome to the first International Space Station Update for 2012.

2

00:00:06,220 --> 00:00:12,170

Currently onboard, the crew of Expedition 30 is continuing their full six man utilization.

3

00:00:12,170 --> 00:00:16,790

That crew is being led by NASA astronaut Commander Dan Burbank, there in the middle left,

4

00:00:16,790 --> 00:00:22,390

and he is joined by Russian cosmonauts Anton Shkaplerov and Anatoly Ivanishin behind him.

5

00:00:22,390 --> 00:00:27,350

On the right side, the three recent additions to Expedition 30 who docked back on Dec.

6

00:00:27,350 --> 00:00:33,090

23, NASA astronaut Don Pettit, Russian cosmonaut Oleg Kononenko

7

00:00:33,090 --> 00:00:36,620

and European Space Agency astronaut Andre Kuipers.

8

00:00:36,620 --> 00:00:39,470

The crew awoke today at about midnight Central time

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00:00:39,470 --> 00:00:42,260

and then had their daily planning conference

10

00:00:42,260 --> 00:00:45,660

where they discussed the day's activities with controllers on the ground.

11

00:00:45,660 --> 00:00:48,180
Starting off the crew Commander
Burbank is spending much

12
00:00:48,180 --> 00:00:52,330
of his day today installing
the EPIC processor card.

13
00:00:52,330 --> 00:00:56,880
EPIC standing for the Enhanced
Processor and Integrated Communications.

14
00:00:56,880 --> 00:01:01,870
This is a fairly intensive process that
has been going on for over a week now.

15
00:01:01,870 --> 00:01:07,280
He'll be installing the EPIC card in
the Guidance and Navigation Control MDM

16
00:01:07,280 --> 00:01:12,390
and that will take up about
four hours of his day today.

17
00:01:12,390 --> 00:01:16,410
Later on he'll do some Crew Medical
Officer proficiency training.

18
00:01:16,410 --> 00:01:22,720
Anton Shkaplerov is spending some time with the
URAGAN experiment which looks to do observations

19
00:01:22,720 --> 00:01:26,290
in photography and permanent
monitoring of areas where natural

20
00:01:26,290 --> 00:01:30,310
and man-made disasters are forecasted
and also doing some stowage work

21

00:01:30,310 --> 00:01:34,920
on the 45 Progress vehicle which
docked back in early November.

22
00:01:34,920 --> 00:01:39,530
Anatoly Ivanishin is working on a
joint Russian-German experiment known

23
00:01:39,530 --> 00:01:43,640
as Plasma Crystal 3 Plus which
looks to study wave propagation

24
00:01:43,640 --> 00:01:46,550
and dispersion ratios in dust plasmas.

25
00:01:46,550 --> 00:01:52,360
He'll be setting up the photography and video
for this and then also doing a video recording

26
00:01:52,360 --> 00:01:55,350
for Russian television with Anton Shkaplerov.

27
00:01:55,350 --> 00:01:58,220
Oleg Kononenko will also be working

28
00:01:58,220 --> 00:02:02,520
on that Plasma Crystal 3 experiment doing
the comm config and then all of the set up

29
00:02:02,520 --> 00:02:07,670
and execution work before moving on later in
the day to do some item transfer of his own

30
00:02:07,670 --> 00:02:13,830
from the Soyuz 29 or TMA-03M spacecraft
that he arrived on the station.

31
00:02:13,830 --> 00:02:19,670
European astronaut Andre Kuipers doing the
Neurospat set up and experiment work today.

32

00:02:19,670 --> 00:02:26,210

This is a test that looks at the pre-frontal brain functions and spatial cognition.

33

00:02:26,210 --> 00:02:31,010

This determines the effects of the zero gravity environment

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00:02:31,010 --> 00:02:33,750

on how the brain processes everything around it.

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00:02:33,750 --> 00:02:40,450

You see him there working with Don Pettit who help him set that experiment up earlier today.

36

00:02:40,450 --> 00:02:45,940

Kuipers will also be working with the Integrated Cardiovascular Ambulatory Monitoring setting

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00:02:45,940 --> 00:02:47,250

that up.

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00:02:47,250 --> 00:02:51,240

That experiment looks at cardiac atrophy which occurs during spaceflight

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00:02:51,240 --> 00:02:55,030

and how fast it develops and any problems that it may cause.

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00:02:55,030 --> 00:02:59,070

Rounding out the crew, NASA astronaut Don Pettit is doing a number

41

00:02:59,070 --> 00:03:03,430

of sample collections throughout the day from the Human Research Facility

42

00:03:03,430 --> 00:03:08,820

and storing those samples in the MELFI, which is the Minus Eighty-degree Laboratory Freezer

43

00:03:08,820 --> 00:03:17,100

which is used to store those biological samples for later delivery and analysis on the ground.

44

00:03:17,100 --> 00:03:22,140

He also did that Neurospat set up, as you just saw, with Andre Kuipers.

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00:03:22,140 --> 00:03:26,800

Later in the day he'll be replacing a failed laptop on one of the EXPRESS racks

46

00:03:26,800 --> 00:03:30,830

and installing a few new software applications.

47

00:03:30,830 --> 00:03:35,210

The crew will end their day with a second daily planning conference going over the day's events